

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Serguei SOUKHAREV et al.  
Title: FLUORESCENT SUBSTRATES FOR DETECTING  
ORGANOPHOSPHATASE ENZYME ACTIVITY  
Int'l. Appl. No.: PCT/US2004/007897  
Int'l. Filing Date: March 16, 2004  
Examiner: Unassigned  
Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.56

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The documents being cited in the attached PTO/SB/08 were cited as being relevant during the prosecution of the corresponding international application. A copy of the International Search Report is attached setting forth the portion of the documents considered relevant by the examiner. A copy of the cited references listed in the Search Report is not being submitted herewith.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date: 14 October 2009

By Stephen A. Bent

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Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Date Submitted: October 14, 2005**

*(use as many sheets as necessary)*

*Complete if Known*

~~14 OCT 2003~~

Application Number	Unassigned
Filing Date	October 14, 2005
First Named Inventor	Serguei SOUKHAREV
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	089548-0155

Sheet	1	of	2
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		<b>JC09 Rec'd PTO 14 OCT 2005</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	Unassigned
Date Submitted: October 14, 2005		Filing Date	October 14, 2005
(use as many sheets as necessary)		First Named Inventor	Serguei SOUKHAREV
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet	2 of 2	Attorney Docket Number	089548-0155

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
		Peter KOVACS et al., "Fluorimetric analysis of phospholipase activity in Tetrahymena pyriformis GL", BIOSCIENCE REPORTS, vol. 19, no. 2, April 1999, pp. 81-87.	
		C. SCHULTZ et al., "ACETOXYMETHYL ESTERS OF PHOSPHATES, ENHANCEMENT OF THE PERMEABILITY AND POTENCY OF CAMP", Journal of Biological Chemistry, American Society of Biological Chemists, Baltimore MD, vol. 268, no. 9, March 25, 1993, pp. 6316-6322.	
		Kyle R. GEE et al., "Fluorogenic substrates based on fluorinated umbelliferones for continuous assays of phosphatases and beta-galactosidases", ANALYTICAL BIOCHEMISTRY, vol. 273, no. 1, August 15, 1999, pp. 41-48.	
		Z. HUANG et al., "3,6-FLUORESCIN DIPHOSPHATE: A SENSITIVE FLUOREGENIC AND CHROMOGENIC SUBSTRATE FOR PROTEIN TYROSINE PHOSPHATASES", Journal of Biomolecular Screening, Larchmont, NY, US, vol. 4, no. 6, December 1999, pp. 327-334.	
		K R GEE, "Novel fluorogenic substrates for acid phosphatase", BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS, Oxford GB, vol. 9, no. 10, May 17, 1999, pp. 1395-1396.	
		Tatiana O. ZAIKOVA et al., "Synthesis of fluorogenic substrates for continuous assay of phosphatidylinositol-specific phospholipase C", BIOCONJUGATE CHEMISTRY, vol. 12, no. 2, March 2001, pp. 307-313.	
		Q. WANG et al., "Novel caged fluorescein diphosphates as photoactivatable substrates for protein tyrosine phosphatases", BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1601, no. 1, November 19, 2002, pp. 19-28.	

Examiner Signature		Date Considered	
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